

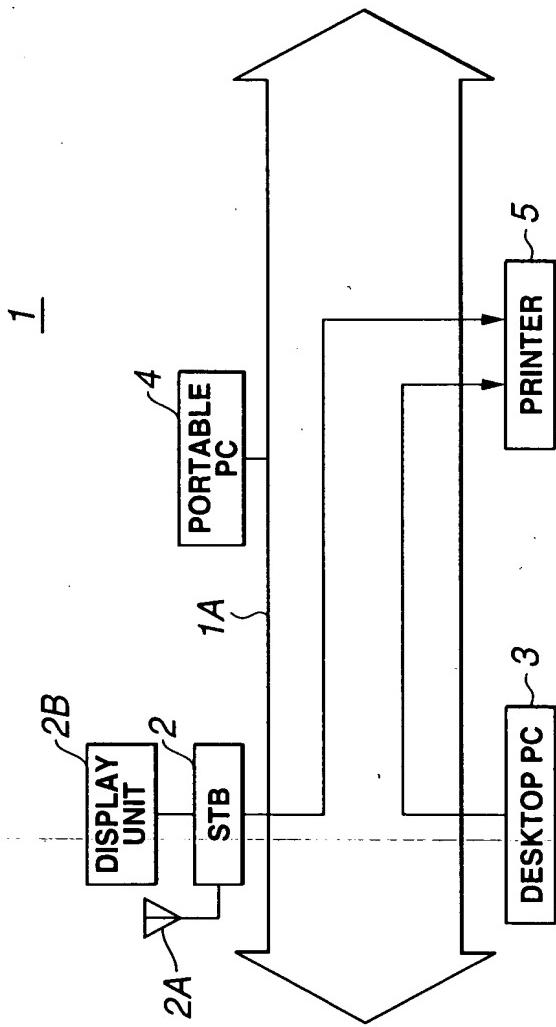
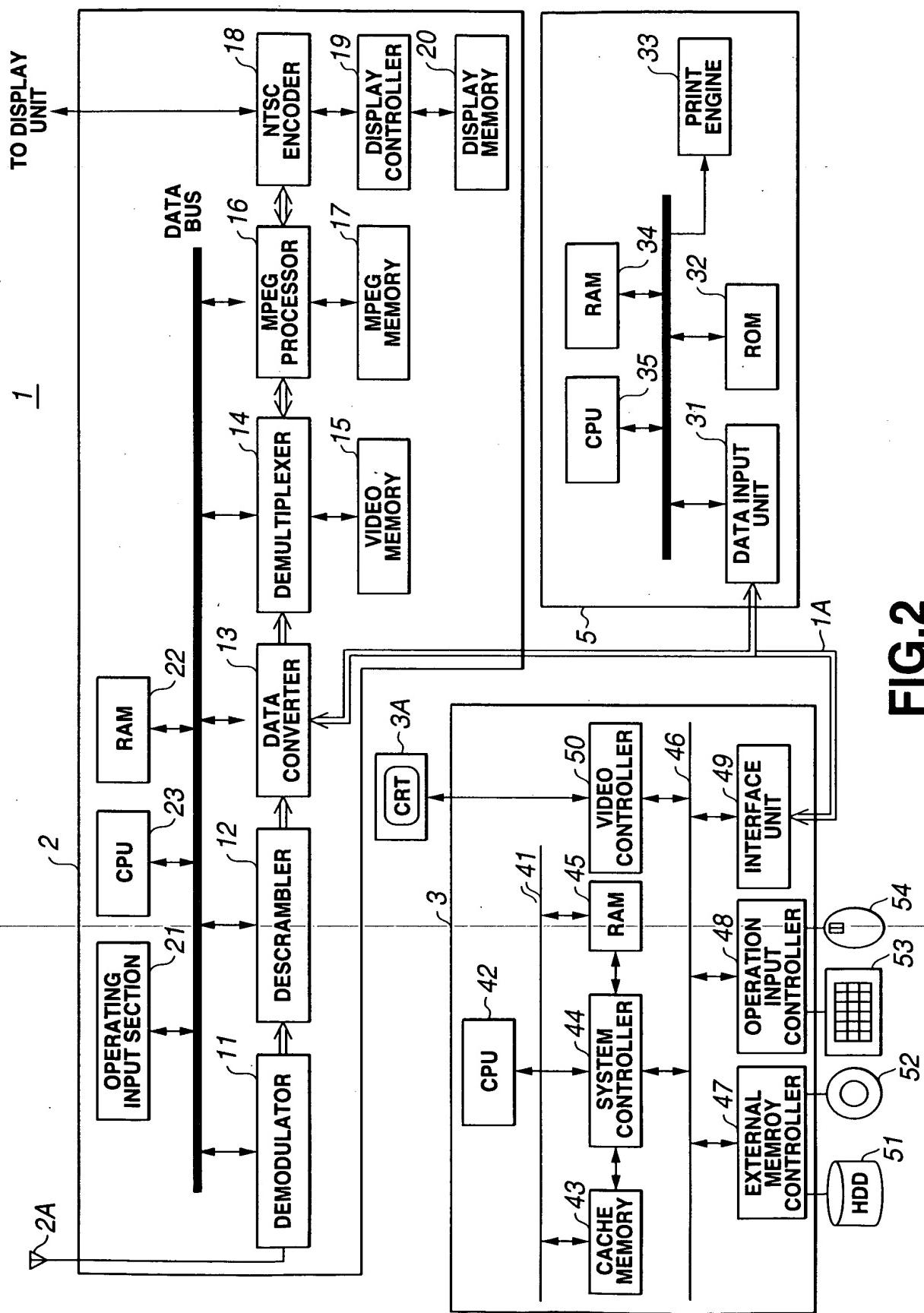
FIG.1

FIG.2



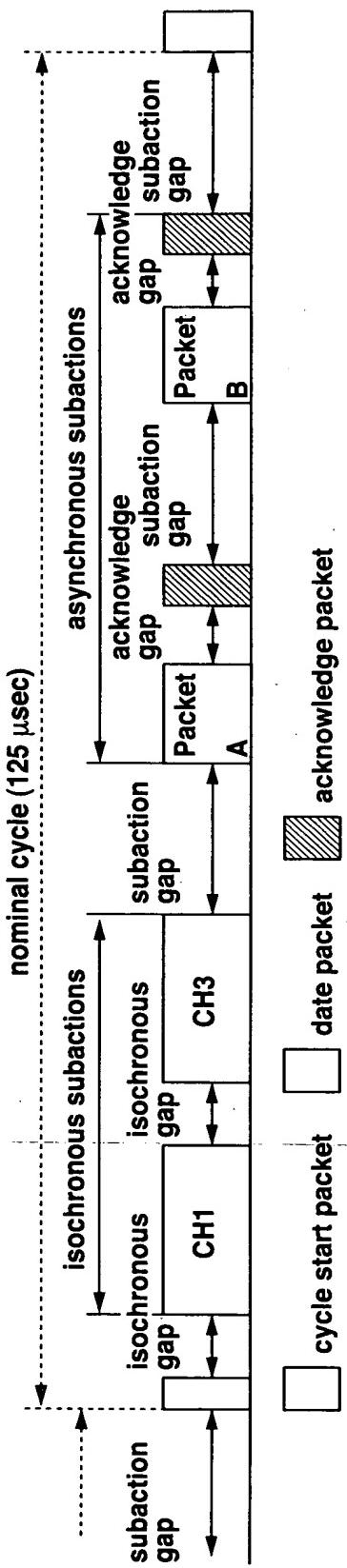


FIG.3

TELECOM = 2222222222

destination_ID	tl	rt	tcode	pri
source_ID				
destination_offset				
data_length	extended_tcode			
header_CRC				
CTS	Data/Command			
data_CRC				

FIG.4

CTS	ctype	subunit_type	subunit_ID	opcode	operand[0]
operand[1]	operand[2]	operand[3]	operand[4]		
.....					
operand[n]					

FIG.5

	msb							lsb
opcode		OPERATION MODE(41₁₆)						
operand [0]		subfunction						
operand [1]		status						
operand [2]		next_pic						
operand [3]		next_page						
operand [4]								
operand [5]								
:		print_job_ID						
operand [16]								
operand [17]								
:		Operation_mode_parameters						
operand [24]								
operand [25]								
:		Operation_mode_optional_parameters						
operand [29]								
operand [30]								
operand [31]		reserved						
operand [32]								

FIG.6

Address Offset	Contents
00 ₁₆	media_type
01 ₁₆	Media_size
02 ₁₆	
03 ₁₆	
04 ₁₆	reserved
05 ₁₆	Print_quality
06 ₁₆	Mono_color
07 ₁₆	offset
08 ₁₆	
09 ₁₆	
0A ₁₆	
0B ₁₆	Layout_type
0C ₁₆	
0D ₁₆	
0E ₁₆	

FIG.7

	msb						lsb
opcode							CAPTURE(42₁₆)
operand [0]							subfunction
operand [1]				source_subunit_type			source_subunit_ID
operand [2]							source_plug
operand [3]							status
operand [4]							dest_plug
operand [5]							
:							print_job_ID
operand [16]							
operand [17]							
operand [18]							data_size
operand [19]							
operand [20]							
operand [21]							image_size_x
operand [22]							
operand [23]							image_size_y
operand [24]							
operand [25]							image_formatSpecifier
operand [26]							
operand [27]							
operand [28]							reserved
operand [29]							
operand [30]							Next_pic
operand [31]							
operand [32]							Next_page

FIG.8

Value(MSB)	Value(LSB)	Type	Meaning
00 ₁₆	sRGB raw		
	00 ₁₆	sRGB raw	
	01 ₁₆	sRGB raw,quadlet	
01 ₁₆	YCC raw		
	0X ₁₆	YCC4:2:2 raw/pixel	
	1X ₁₆	YCC4:2:2 raw/line	
	8X ₁₆	YCC4:2:0 raw/pixel	
	9X ₁₆	YCC4:2:0 raw/line	
	X0 ₁₆	Pixel ratio 1.00×1.00 / ITU-R BT.709-2 / interface	
	X1 ₁₆	Pixel ratio 1.19×1.00 / ITU-R BT.709-2 / interface	
	X2 ₁₆	Pixel ratio 0.89×1.00 / ITU-R BT.709-2 / interface	
	X3 ₁₆	Pixel ratio 0.89×1.00 / ITU-R BT.601-4 / interface	
	X8 ₁₆	Pixel ratio 1.00×1.00 / ITU-R BT.709-2 / progressive	
	X9 ₁₆	Pixel ratio 1.19×1.00 / ITU-R BT.709-2 / progressive	
	XA ₁₆	Pixel ratio 0.89×1.00 / ITU-R BT.709-2 / progressive	
	XB ₁₆	Pixel ratio 0.89×1.00 / ITU-R BT.601-4 / progressive	
10 ₁₆	DCF Object		
	00 ₁₆	Exif 2.1	
	01 ₁₆	JFIF	
	02 ₁₆	TIFF	
	0F ₁₆	JPEG	

FIG.9

Value (MSB)	Value (LSB)	Type	Meaning
40_{16}	Page Description Language		
	03_{10}	PCL	HP-GL/2 is included as part of the PCL language (PCL and HP-GL/2 are registered trademarks of Hewlett-Packard Company.)
	04_{10}	HP-GL	Hewlett-Packard Graphics Language (HP-GL is a registered trademark of Hewlett- Packard Company.)
	05_{10}	PJL	Peripheral Job Language (Hewlett-Packard Co.)
	06_{10}	PS	PostScript Language (Postscript is a trademark of Adobe Systems Incorporated.)
	07_{10}	IPDS	Intelligent Printer Data Stream (IBM)
	08_{10}	PPDS	IBM Personal Printer Data Stream (Lexmark International, Inc.)
	09_{10}	EscapeP	ESC/P (Epson Corp.)
	10_{10}	Epson	(Epson Corp.)
	11_{10}	DDIF	Digital Document Interchange Format (Digital Equipment Corp.)
	12_{10}	Interpress	(Xerox Corp.)
	13_{10}	ISO6429	Control functions for Coded Character Sets (ISO Standard)
	14_{10}	LineData	Lines of data as separate ASCII or EBCDIC records and containing no control functions(no CR,LF,HT,FFetc.).(See ISO 10175 Document Printing Application(DPA)) (ISO Standard)
	15_{10}	MODCA	Mixed Object Document Content Architecture (IBM)
	16_{10}	REGIS	Remote Graphics Instruction Set (Digital Equipment Corp.)
	17_{10}	SCS	SNA Character String Bi-directional print data stream for SNA LU-1 mode of communications (IBM)
	18_{10}	SPDL	ISO 10180 : Standard Page Description Language (ISO Standard)
	19_{10}	TEK4014	Tektronix 4014 Graphics Terminal (Tektronix Corp.)

FIG.10

打印机代码 = 330F902850

Value (MSB)	Value (LSB)	Type	Meaning
	20_{10}	PDS	
	21_{10}	IGP	(Printronix Corp.)
	22_{10}	CodeV	Magnum Code-V,Image and printer control language (QMS,Inc)
	23_{10}	DSC-DSE	Data Stream Compatible and Emulation Bi-directional print data stream for non-SNA(DSC) and SNA LU-3 3270 controller (DSE) communications (IBM)
	24_{10}	WPS	Windows Printing System (Microsoft Corporation.)
	25_{10}	LN03	Early DEC-PPL3 (Digital Equipment Corp.)
	26_{10}	CCITT	
	27_{10}	QUIC	Quality Information Code (QMS,Inc)
	28_{10}	CPAP	Common Printer Access Protocol (Digital Equipment Corp.)
	29_{10}	DEC-PPL	Digital ANSI-Compliant Printing Protocol (Digital Equipment Corp.)
	30_{10}	Simple Text	character coded data,including NUL,CR,LF, HT, and FF control characters,(See ISO 10175 Document Pinting Application(DPA)) (ISO Standard)
	31_{10}	NPAP	Network Printer Alliance Protocol(This protocol has been superseded by the IEEE1284. 1 TIPSI Std (ref,TIPSI=49 ₁₀))
	32_{10}	DOC	Document Option Commands (QMS,Inc)
	33_{10}	ImPRESS	(QMS,Inc)
	34_{10}	Pinwriter	24 wire dot matrix printr for USA,Europe, and Asia except Japan. (NEC)
	35_{10}	NPDL	Page printer for Japanese market (NEC)
	36_{10}	NEC201PL	PC-PRO201 Series:Serial printer language used in the Japanese market. (NEC)
	37_{10}	Automatic PDL sensing	Automatic sensing of the interpreter language family by the printer examining the document content.Which actual interpreter language families are sensed depends on the printer implementation.
	38_{10}	Pages	Page printer Advanced Graphic Escape Set (IBM Japan)
	39_{10}	LIPS	LBP Image Processing System

FIG.11

印字機用語

Value (MSB)	Value (LSB)	Type	Meaning
	40 ₁₀	TIFF	Tagged Image File Format (Aldus)
	41 ₁₀	Diagnostic	A hex dump of the input to the interpreter
	42 ₁₀	PSPrinter	The PostScript Language used for control (with any PDLs) (Adobe Systems Incorporated)
	43 ₁₀	CaPSL	Canon Print Systems Language (Canon Inc.)
	44 ₁₀	EXCL	Extended Command Language (Talaris Systems Inc.)
	45 ₁₀	LCDS	Line Conditioned Data Stream (Xerox Corporation)
	46 ₁₀	XES	Xerox Escape Sequences (Xerox Corporation)
	47 ₁₀	PCLXL	Printer Control language.Extended language features for printing, and printer control. (Hewlett-Packard Co.)
	48 ₁₀	ART	Advanced Rendering Tools (ART IV) (Fuji Xerox Co.,Ltd.)
	49 ₁₀	TIPSI	Transport Independent Printer System Interface (ref.IEEE Std.1284.1)
	50 ₁₀	Prescribe	Technical reference manual: "PRESCRIBE II Programming Manual"
	51 ₁₀	LinePrinter	A simple-text character stream which supports the control codes LF, VT, FF, and plus Centronics or Dataproducts Vertical Format Unit(VFU) language
	52 ₁₀	IDP	Imaging Device Protocol (Apple Computer.)
	53 ₁₀	XJCL	Xerox Job Control Language (JCL) (Fuji Xerox Co.,Ltd.)
	54 ₁₀	PDF	Adobe Portable Document Format (Adobe Systems,Inc.)
	55 ₁₀	RPDL()	Ricoh Page Description Language for printers (RICOH,Co.LTD)
	56 ₁₀	IntermecIPL	Intermec Printer Language for label printers (Intermec Corporation)
	57 ₁₀	UBIFingerprint	An intelligent basic-like programming language for label printers. (United Barcode Industries)
	58 ₁₀	UBIDirectProtocol	An intelligent control language for label printers. (United Barcode Industries)
	59 ₁₀	Fujitsu Printer Language	(FUJITSU LIMITED)
80 ₁₆ ~ 8F ₁₆	59 ₁₆ ~ FF ₁₆		Vendor Dependent format
FE ₁₆		Special meaning	
	00 ₁₆	Unit Plug defined	
	01 ₁₆	Don't care	

FIG.12

TOP4040 = 33790350

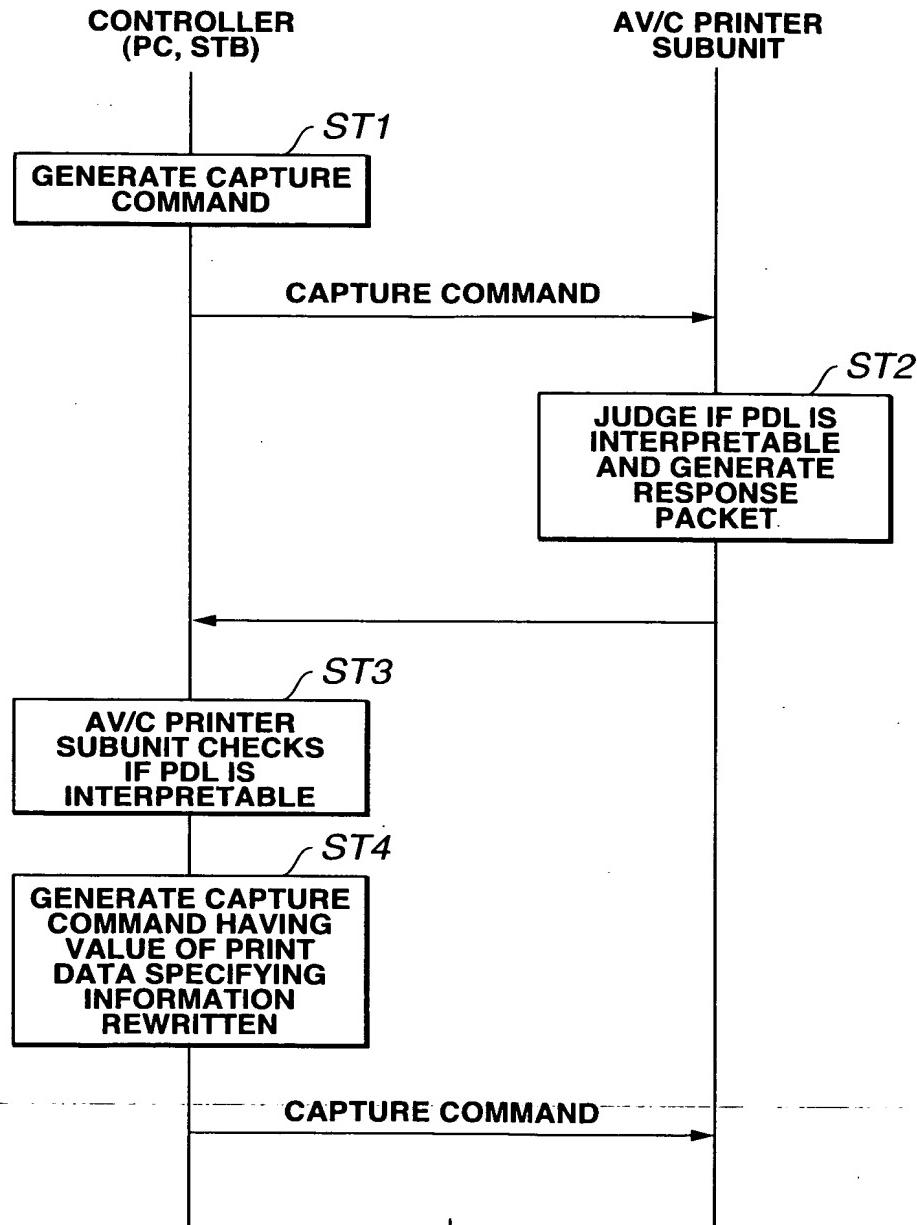


FIG.13

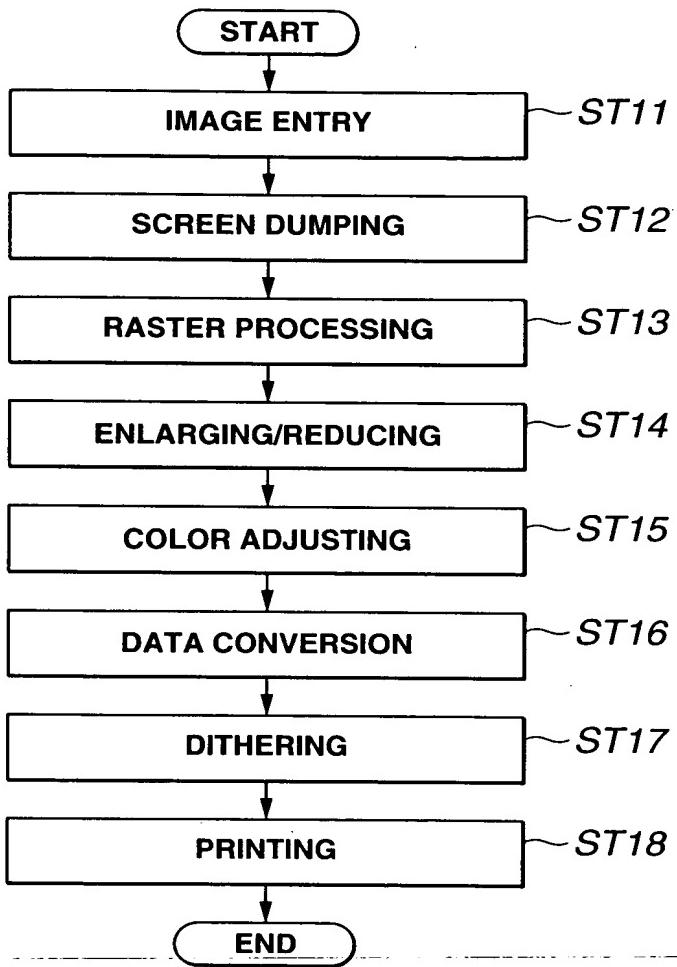


FIG.14

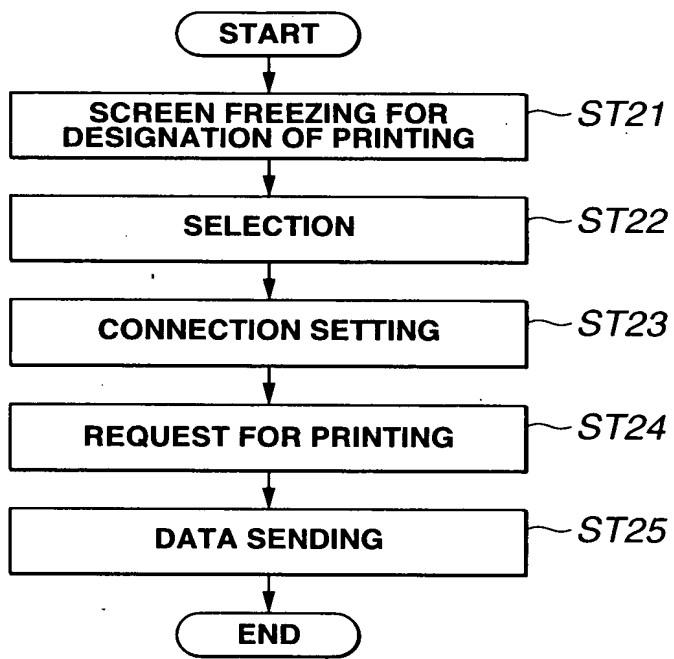
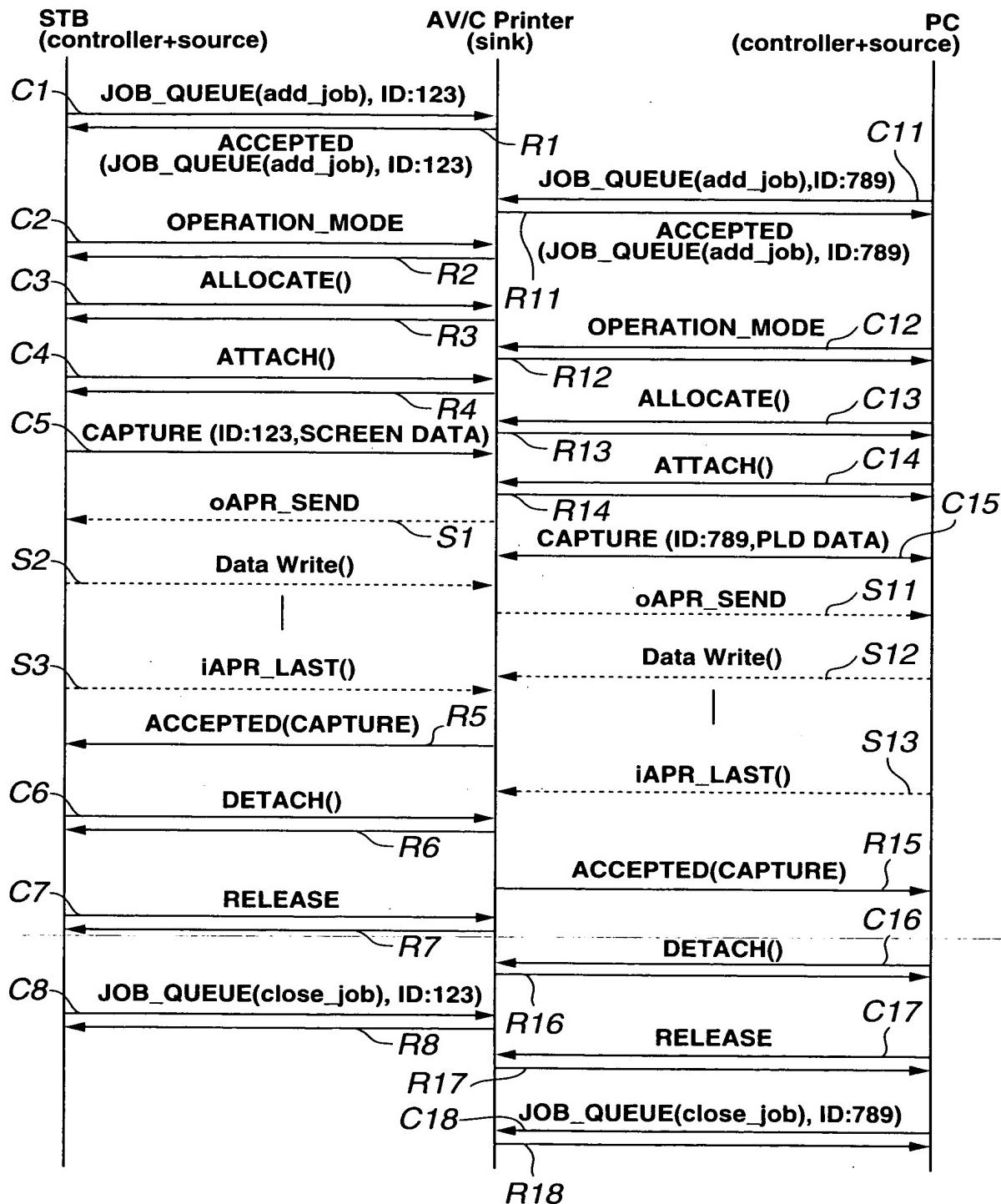


FIG.15

**FIG.16**

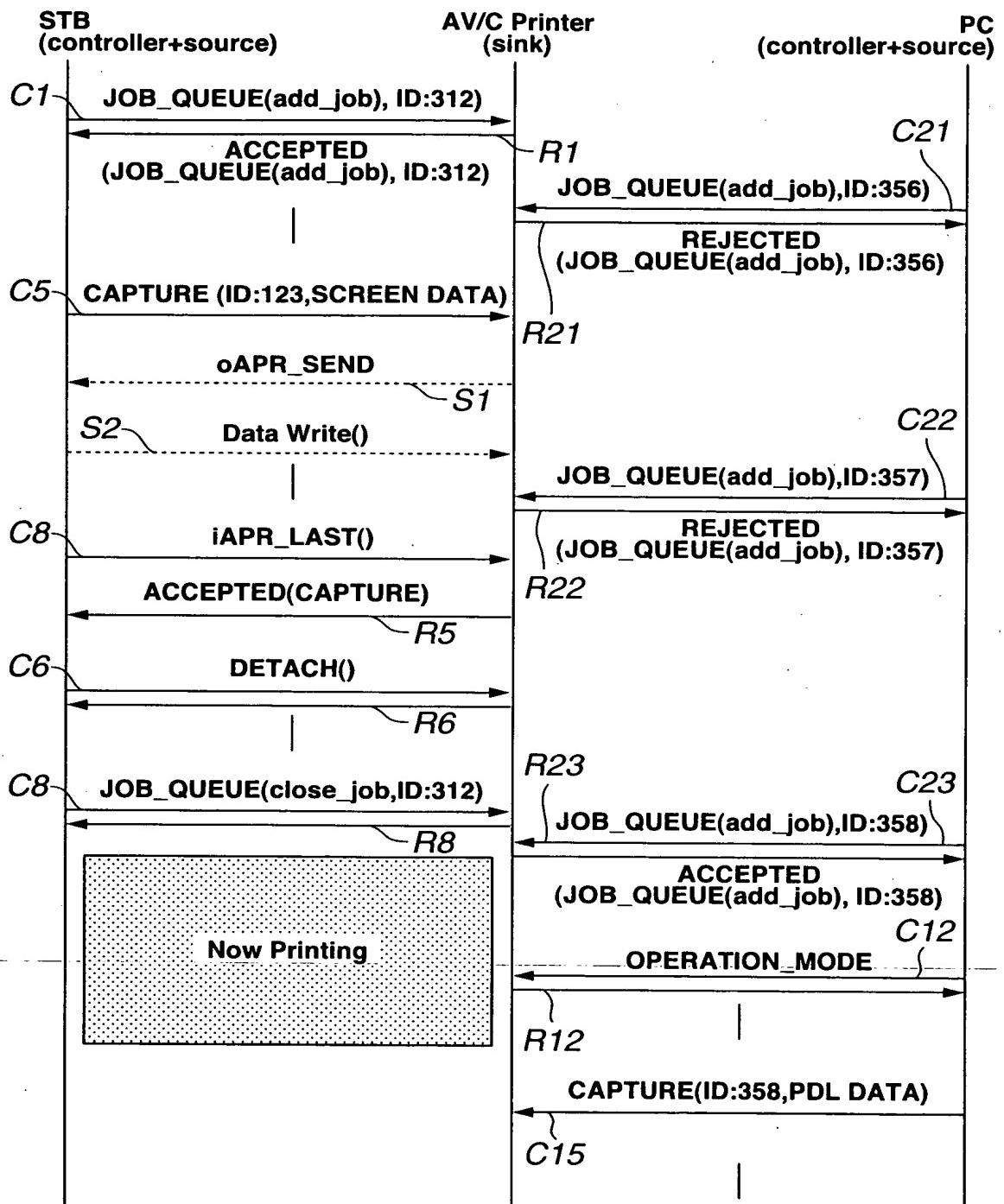


FIG.17

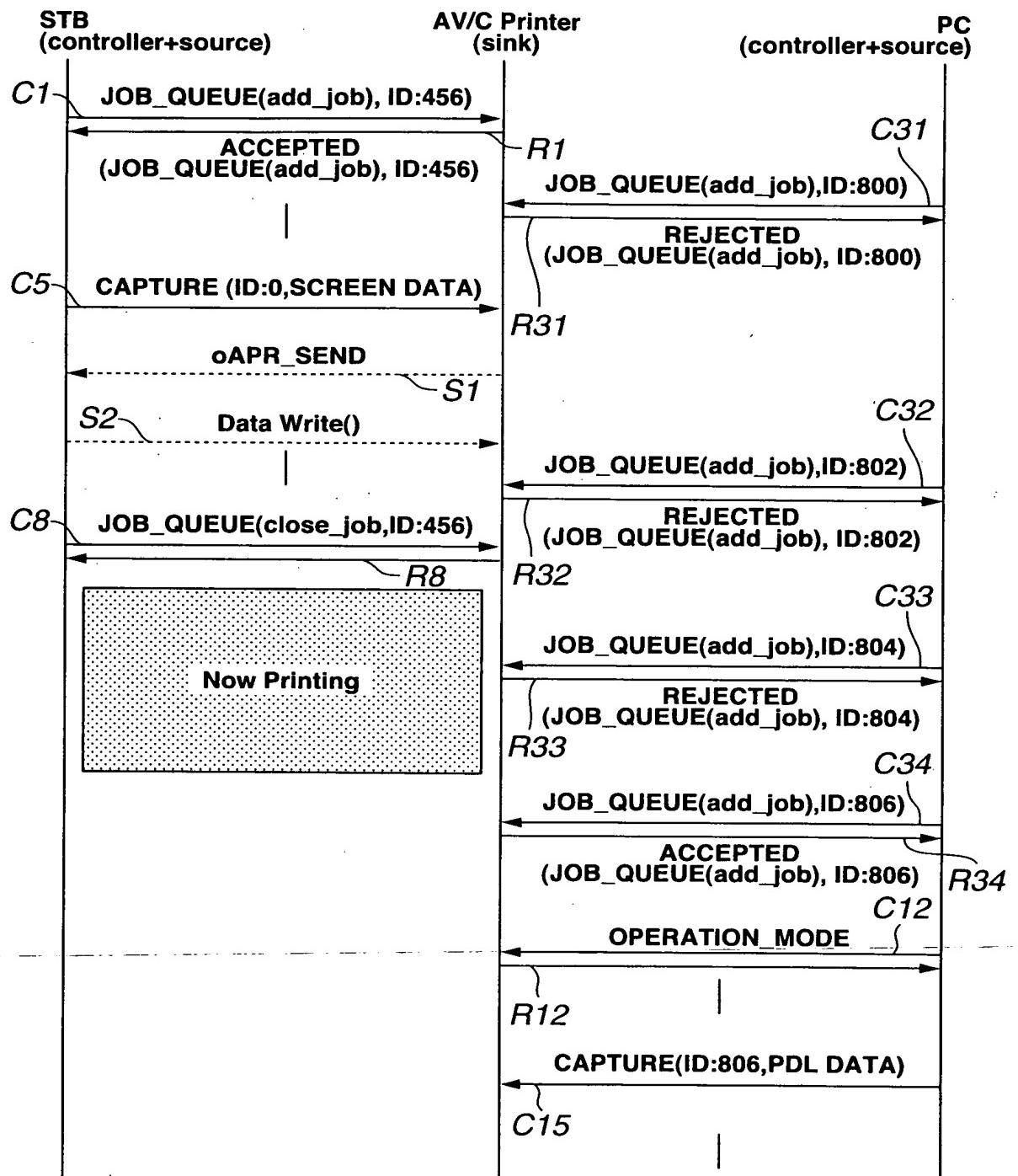


FIG.18

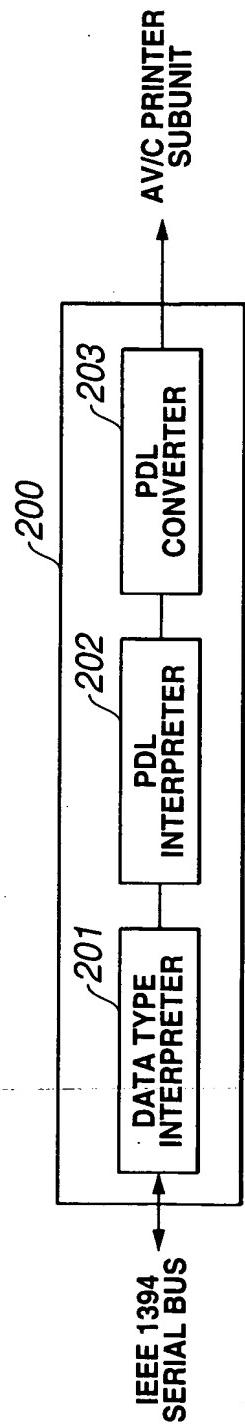


FIG.19